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#### Introduction:

The goal of this project is to develop methods to encourage earlier detection of breast cancer in rural African-Americans. Our previous research has indicated two reasons for late stage breast cancer presentation in this population: 1) lack of breast screening including clinical breast exam and mammography, and 2) patient delay due to cultural and psychosocial beliefs.

The current research seeks to ascertain when these beliefs are formed and test whether they can be modified. Through an extensive educational intervention, we will determine if changing these beliefs increases rates of screening behavior and decreases delay in seeking medical care for breast symptoms.

#### Body:

The experimental design involves community-wide, in depth surveys of women ages 19 and over in two similar counties, Pitt and Wilson. These interviews will be performed before and after the educational intervention which will be conducted only in the experimental county, Pitt County.

There are four components of the intervention: 1) a conference on minority health issues for the local community, 2) a media campaign, 3) educational programs in churches, schools, and businesses, and 4) an intervention with younger women during their Ob-Gyn appointments counseling them to take information to their older female relatives. Each of these components is in the developmental stage at this time.

In preparation for the intervention, we have produced a documentary video featuring several patients from the East Carolina University (ECU) Breast Clinic. These patients were followed during their diagnosis and treatment procedures and filmed in their homes and at their churches. They freely discussed their fears, beliefs, and concerns related to barriers in breast cancer treatment. The video will be utilized in several aspects of the intervention including the health conference, educational programs, and media campaign.

We have expanded the theoretical framework to include the Health Belief Model as discussed by Rosenstock (1). The basic assumption of this model which has been applied to cancer screening behavior is that the individual is susceptible to external influence such that one's perception of susceptibility to and severity of (perceived threat of disease), in this case, breast cancer, is influenced by demographic and psychosocial variables (2). It follows that cues to preventive actions develop from mass media, advice from family and friends, and previous experience of illness affecting family and friends (3). Individual health choices to follow recommended preventive health action (e.g., screening) are determined by the perceived benefits of that action minus its perceived barriers (including financial, time and information factors). Under this model, individuals choose those actions where the perceived benefits are greater than the perceived barriers (3).

The intervention will provide the external cues to action in the mass media campaign, advice from younger relatives, and information from educational programs. The goal is to increase breast cancer screening behaviors and knowledge by amplifying the perceived benefits and reducing the perceived barriers through education.

In the first year, several tasks in the Statement of Work have been accomplished. Regarding Task 1, the project manager and health educator have been hired and the Advisory Board has been assembled. Several meetings of the Advisory Board have lead to formulation of strategies which should be effective in reaching this community.

The second task, conducting the pre-intervention survey, is well underway. Twenty interviewers have been recruited and trained. The household survey to determine the sampling frame is almost complete and data for approximately 1700 women have been entered into the computer, cleaned, and verified. These data will then be used to select the experimental and control populations who will be interviewed. The interviewers will come from the pool of census surveyors and will receive additional training for this particular questionnaire.

The instrument has been developed and is in the process of being pre-tested and revised (attached in appendix). One time-saving factor involves using the Teleform software for developing our survey instrument. This is labor-intensive to format and has slowed development of the instrument. However it has the distinct advantage of being readily scanned into the computer and immediately translated into SPSS and, in the long run, will speed data analysis. Once the instrument has been pre-tested, final revisions will be made, and the pre-intervention data will be collected.

The educational materials are being developed as in Task 3. As mentioned earlier, the breast cancer video has been produced and will be used along with other educational materials for the intervention. The educational pamphlets for use in Ob-Gyn offices and advertisements for mass media are under development and will be tested and revised over the next several months.

The intervention itself (Task 4) is scheduled to begin in early 1998. With the current reliable and motivated pool of interviewers, the pre-intervention data collection should proceed expeditiously so the intervention can begin immediately upon its completion. Plans are being formulated for the conference on minority health issues for medical and community leaders which will serve as the "kick-off" for the intervention. Once underway, this should proceed without interruption or delay to allow us to approach the proposed time frame.

At this point, problems in accomplishing the proposed tasks have mainly involved personnel. In each county census workers were trained and given assignments. However, for a variety of reasons (e.g., re-location, procurement of full time employment, family illness), surveyors have resigned resulting in delays due to re-assigning the census areas. We have now assembled a dependable staff and few additional changes are expected.

#### Conclusions:

We hope to reduce breast cancer mortality by preventing avoidable mortality through an educational intervention with the ultimate goal of diagnosing the disease at an earlier, more treatable stage. The aspirations of this study include: 1) developing educational messages about early detection of breast cancer consistent with prevailing cultural beliefs and attitudes and 2) providing awareness of breast cancer symptoms and screening practices in conjunction with culturally sensitive methods encouraging women to utilize available resources for early detection.

If the results of this study indicate psychosocial variables are amenable to change and this is shown to affect screening behavior and ultimately disease stage presentation, it could have a major impact on breast cancer mortality. Both the approach and the findings from this study are applicable to a larger population beyond this region.

## References:

- 1. I. Rosenstock, Historical Origins of the Health Belief Model, *Health Education Monographs*, **2**, p. 328-335 (1974).
- 2. I. Rosenstock, in *Health Behavior and Health Education*, K. Glantz, F. Marcus Lewis, and B. Rimer, Eds. (Jossey-Bass, San Francisco, 1990), p. 39-62.
- 3. J. McKenzie, J. Jurs, *Planning, Implementing and Evaluating Health Promotion Programs: A Primer* (Macmillan, New York, 1993), p. 79-81.

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The Influence of Socioeconomic and Cultural Factors on Racial Differences in Late Stage Presentation of Breast Cancer in Rural North Carolina, submitted.

#### 2) Abstracts

Delay in Seeking Medical Treatment for the Symptoms of Breast Cancer in African-American and White Women, presentation, Society of Clinical Research Associates (SOCRA), Sixth Annual Conference, September, 1997, Colorado Springs.

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**APPENDIX** 



## Breast Cancer Project Time-1 Survey Leo W. Jenkins Cancer Center East Carolina University

S	ubject ID# Interview Date / Interviewer
L	Last Name (same as on census forms) First Name
	Street Address (if different)
IVI	ailing Address: Street Address (if different):
	ocial Security #
	CCESS TO HEALTH CARE: Let's begin by talking about some of the health care services that you may use.  Is there a particular place that you usually go to if you want to see someone about your health?
1.	O Yes O No (SKIP to #3) O S.C. (don't know)
	What kind of place do you usually go to? Is it a doctor's office, a hospital, a clinic, or some other place?  {INTER: don't read choices. Probe for the one place they go most often, the usual place}  O Doctor's office (either one-person practice or group)  O Hospital emergency room O Hospital walk-in or outpatient clinic O Private clinic, not part of medical school O Medical school clinic O Public health department clinic O Community (rural, neighborhood) health center O Military facility O Other (write R's exact words) O Don't go to only one place  Do you have a doctor that you think of as your own doctor? One that you see for most of your health needs?
٥.	O Yes O No (SKIP to 9) O S.C. (don't see an MD) (SKIP to 9)
4.	What type of doctor is he/she? {INTER: Hand R. Card #1. Fill in correct circle below}
	O a family doctor O a general internist O an OB/GYN O a specialist O or some other type of doctor O S.C. (don't know) (SKIP to #9)
5.	Is your doctor a man or a woman? O Man O Woman O S.C. (don't see the same doctor each time)
6.	Would you mind telling me his/her name (or the name of the practice)?
7.	When was the last time that you went to see this doctor?
	$\bigcirc$ 6mos-1xr $\bigcirc$ 1xr-2xrs $\bigcirc$ 2xr-5xrs $\bigcirc$ 5xrs or more



- · · · · ·																		
8. When you last visit	ed this do	octor,	, did he	/she	do a	my c	of the f	followi	ng th	ings	?							
talk with you al	out you	r risk	of brea	ast c	ance	er					(	O Yes	01	No	O N	ot si	ıre	
examine your b	reasts for	r kno	ts or lu	mps							(	O Yes	01	Vо	ON	ot si	ıre	
ask you whethe	r you exa	amine	your c	wn	brea	sts f	or lun	nps/knc	ts		(	O Yes	01	Vо	ON	ot si	ıre	
show you how t	o exmair	ne yo	ur own	bre	asts	for l	umps/	knots			(	O Yes	01	Vo	ON	ot sı	ıre	
show you a brea	ast mode	el									(	O Yes	01	VО	ON	ot si	ıre	
talk with you al	out man	nmog	raphy								(	O Yes	ON	10	ON	ot si	ıre	
recommend that	you get	a ma	ımmogr	am							(	O Yes	ON	10	O N	ot si	ıre	
actually make a	n appoin	itmen	t or giv	e yo	u a 1	refer	ral for	r a man	nmog	gram	ι (	) Yes	ON	10	O N	ot su	ıre	
ask if your moth	ier or gra	andm	other h	ad b	reas	t car	icer				(	) Yes	ON	10	O N	ot su	ıre	
give you any wi breast self-exan	n or mam	nmogi	raphy			-			ance	r,	(	O Yes	ON	10	O N	ot sı	ıre	
ask you to share			-									) Yes	ON		O N		ıre	
(INTER: If R. said h OB/GYN, then SKIP to 9. Do you see an ob/	to #14}			us a	.a. U.	<b>U</b>	411 GI	.u alis	vei C	u III	. aD	ore que	otiUI	เฮสม	vat I			
O Yes, regularly																		
O Yes, sometimes																		
O No, I did in the	past, but	t not	now (	SKI	P to	14)												
O No, never (SI	KIP to 1	4)																
10. Is your gynecolog	ist a mar	or a	womai	1?														
O Woman O M	lan O	(S.C.	. don't s	ee t	he sa	me (	doctor	each t	ime)									
11. Would you mind t	elling me	e his/l	her nan	ne?	(Or	the 1	name o	of the p	racti	ce)								
12. When was the last	time tha	at you	ı went t	o se	e thi	s do	ctor?	<b>.</b>	<u> </u>		ł	L	_ <b></b>		<u> </u>			
O Within the past	six mon	ths	O Wit	hin <sup>.</sup>	the p	ast y	year	O Wi	thin 1	the p	ast 1	wo year	rs	o w	'ithin	the	past t	five
13. When you last vis	ited this	docto	or, did h	ie/sh	e do	any	of the	follow	ing 1	- thing	gs?	-					-	
talk with you	about yo	ur ris	sk of br	east	can	cer						O Yes	0	No	0	Not	sure	
examine your	breasts f	for kn	ots or	lump	os							O Yes	0	No	0	Not	sure	
ask you wheth	er you e	xamii	ne your	ow	n bre	easts	for lu	ımps/kı	ots			O Yes	0	No	0	Not	sure	
show you how	to exma	aine y	our ow	n br	east	s for	lump	s/knots				O Yes	0	No	0	Not	sure	
show you a bi	east mod	del										O Yes	0	No	0	Not	sure	
talk with you	about ma	ammo	ography	7								O Yes	0	No	0	Not	sure	
recommend th	at you go	et a m	nammo	gran	n							O Yes	0	No	0	Not	sure	
actually make	an appo	intme	ent or g	ive <u>y</u>	you a	a ref	erral f	or a ma	amm	ogra	m	O Yes	0	No	0	Not	sure	
ask if your mo	ther or g	grand	mother	had	brea	ast c	ancer					O Yes	0	No	0	Not	sure	
give you any v					a pai	mphl	let, on	breast	cano	er,		O Yes	0	No	0	Not	sure	
ask you to sha	re inforr	matio	n with	your	old	er fe	male r	elative	S			O Yes	0	No	0	Not	sure	



14. Have you ever visited with any of the following types of health care providers or been to any of the following centers or programs for health care? {INTER: fill in circles for all the R. Mentions} O Root doctor O Chiropractor O Accupuncturist O Biofeedback center O Herbalist O Fortune teller or psychic O Health food store O Self-help group O Massage therapist O Commercial weight loss program O Homeopath O Hypnotist O Religious healer Now, let's talk about your attitude about your own health. 15. Some people go to the doctor right away, whenever they're worried about their health. Others put off going even when they have a serious problem. Do you usually: O go to the doctor as soon as you think something is wrong O wait a while and try taking care of the problem yourself O wait a while and do nothing to see if it will go away O or do you usually not go to the doctor at all O (S.C. depends on the type of problem) Perceived Risk. Now let's talk about how worried you are about your risk for developing breast cancer. 16. Do you think it is likely or unlikely that you will get breast cancer in your lifetime? O Very unlikely O Somewhat unlikely O Somewhat likely O Very likely O Don't know 17. Compared to most women your age, what do you think the chances are that you will get breast cancer someday? Do you think your chances are: O Much lower O Somewhat lower O Somewhat higher O Much higher O Don't know 18. Overall, how worried are you about the chance that you might get breast cancer someday. Would you say that you are: O Not worried at all O Somewhat worried O Very worried O Don't know 19. Can you tell me how old you were when you had your first menstrual period? Were you: O younger than 12 O age 12-13 O age 14 or older 20. Have you given birth to any children (count only children born alive): O Yes O No (SKIP to 23) 21. Can you tell me how old you were when you had your first live birth (count only your first child born alive): O Younger than 20 O Between 20 and 24 years old O Between 25-29 years old O 30 years or older 22. Has any doctor ever told you that you had a lump or tumor in your breast?

{INTER: If R. says that she thinks she has one now, be sure at the end of the interview to recommend that she sees a doctor/nurse}

O Yes O No O (S.C. not sure)

23. Have you ever had a breast biopsy?

O Yes O No(SKIP to 27) O (S.C. not sure)

Droft							
Draft 24. How many brea	st biopsi	es have y	ou had?				
25. Did any of them	turn out	t to be ca	ncer?	<b>_</b>			
O Yes				O (S.C. not sure)			
				Some of them may have cancer was first found an			
					4.000		
	f breast	cancer.	Remember, we a	questions about any of are talking about your b ly by marriage.			
27. How many of yo	our blood	d relative	s have had breast	cancer?			
Mother	O Yes	O No	O Don't know				
Sister(s)	O Yes	O No	O Don't know	# positive			
Daughter(s)	O Yes	O No	O Don't know	# positive			
Grandmothers	O Yes	O No	O Don't know	# positive			
Aunts	O Yes	O No	O Don't know	# positive			
Cousins	O Yes	O No	O Don't know	# positive			
				gs increase their risk of g ever risks for developing			lease tell me
, and the second		•			<u>Always</u>	Sometimes	Never
ould getting your pogetting breast cancer			•	ease a woman's chances mes or never?	0	0	0
ould eating a high f	at diet in	crease a	woman's chances	of getting breast cancer?	0	0	0
ow about drinking n	nore than	1 2 alcoho	olic drinks a day?		0	0	0
ow about having bro	east impl	lants?			0	0	0
ow about having a f	amily his	story of b	oreast cancer?		0	0	0
ow about smoking r	egularly	?			0	0	0

How about getting a bump or a bruise on the breast. Would you say that would

always, sometimes, or never increase a woman's chance of getting breast cancer?

How about drinking a lot of caffeinated beverages?



	Diali	<u>Always</u>	<b>Sometimes</b>	<u>Never</u>
	How about waiting to have children until you are over age 30?	0	0	0
	How about taking birth control pills?	0	0	0
	How about breastfeeding your children?	0	0	0
	How about going through menopause late in life, after age 55. Would you say that would always, sometimes or never increase a woman's chance of getting breast cancer?	0	0	0
	How about excessive fondling of the breasts?	0	0	0
	How about having fibrocystic disease?	0	0	0
	How about being older than age 50. Would you say that always, sometimes or never increases a woman's chance of developing breast cancer?	0	0	0
	How about never having had any children?	0	0	0
	How about having had cancer before. Would you say that would always, sometimes or never increase a woman's chance of getting breast cancer?	0	0	0
Sci	eening. Now let's talk about the things that you may have done to protect y	ourself ago	ainst breast ca	ncer.
	Has a doctor or other medical professional ever shown you how to examine you			
	O Yes O No O Not sure		•	
30.	Have you ever felt your own breasts in the way a doctor or nurse does to check	for knots o	r lumps?	
	O Yes O No (SKIP to 31) O Not sure			
	IF YES, about how often do you check your own breasts? Would you say:			
	O Every day			
	O Several times a week			
	O Several times a month			
	Once a month			
	O A few times a year			
	O Almost never			
	(SKIP to 32)			
31.	Why don't you check your own breasts? Is it because: (INTER: fill in all that apply)			
	O You don't know how			
	O You are embarassed to do it			
	O You're not really worried about knots or lumps			
	O You don't think you would be able to feel a lump if there was one			
	O You would rather not know if there is a problem			
	O You lack privacy to do it regularly			
	O You are too young to start doing it now			
	O You are too old to have to worry about that now			
	O You forget			



32.	A mammogram is a picture of the breast tissue made by compressing the bre is takenhave you ever heard of a mammogram?  O Yes O No O (S.C. Not sure)	ast while th	e picture, a	type of x-ray,
33.	Have you ever had a mammogram?			
	O Yes (SKIP to 35) O No O (S.C. Not sure)			
34.	Why do you think that you haven't had one? (Record R's exact wordst	hen skip to	40)	
35.	When was your last mammogram?			
O Wa	st it more than three years ago O Within the past three years O Within t	he past two	years O	Within the past year
36.	What was the main reason why you decided to have your last mammogram.	Was it beca	ause:	
	O Your doctor or nurse recommended it			
	O You thought you might have a breast problem			
	O You were worried about your chances of getting breast cancer			
	O It is recommended for women of your age to have one			
	O Someone other than your doctor or nurse encouraged you to do it			
	O Saw a program on TV			
	O Heard a talk at church or club			
	O Younger relative encouraged me to do it			
37.	Have you ever had a mammogram that showed that something was wrong wi	ith your bre	asts?	
	O Yes O No (SKIP to 40)			
38.	Did you have a biopsy of your breast to find out what was wrong on the man	nmogram?		
	O Yes O No			
39.	Have you ever had any problem with your breasts that you put off seeing a d	octor or nu	rse about?	
	O No O Yes IF YES, can you tell me more about the problem and what	you did?		
40. N	AST CANCER OPINIONS.  fow I would like to ask you some questions about what you know or have or right or wrong answers. I am interested in what your opinion is about			
Breas	t cancer is the most common type of cancer in women.	<u> </u>	<u> </u>	0
	reated, breast cancer may spread to other parts of the body.	0	0	0
	ectomy is removing the breast where cancer is found.	0	0	0
The r	ate at which breast cancers grow is pretty much the same for everyone who reast cancer.	0	0	0
	t 1 out of every 8 women in the U.S. will develop breast cancer at some in her lifetime.	0	0	0

Draft	<u>True</u>	<u>False</u>	Don't know
You can catch cancer from other people.	0	0	0
Lumpectomy is a type of surgery for breast cancer in which the cancer itself but not the whole breast is removed.	0	0	0
African-Americans with breast cancer face more than twice the risk of dying from the disease when compared with white Americans.	0	0	0
Chemotherapy is the use of drugs to kill cancerous cells.	0	0	0
Breast cancer tends to run in families.	0	0	0
If a woman finds a knot or lump, it is better to do nothing because by then it will be too late.	0	0	0
More than half of the patients treated by radiation or chemotherapy never experience nausea or vomiting.	0	0	0
A cancer in the breast that is not treated can lead to death.	0	0	0
Most women who get breast cancer lose their breasts.	0	0	0
If a breast cancer is operated on, it can be stopped from getting any bigger.	0	0	0
Finding a mass in the breast is not as serious as finding a knot or lump.	0	0	0
Men can also develop breast cancer.	0	0	0
As long as a knot or lump doesn't hurt, then it is not cancer.	0	0	0
The National Cancer Institute recommends that women ages 50 and over have a mammogram every year.	0	0	0
Women with many risk factors are certain to get cancer.	0	0	0
A breast cancer is very curable if it is found early.	0	0	0
Some women have a greater chance of getting breast cancer than others.	0	0	0
A woman who has breast cancer will never again lead a normal life.	0	0	0
If a woman finds a knot or lump, the worst that can happen is surgery.	0	0	0

BREAST LUMP ACTIONS. We are trying to find out what women would do if they found a lump or knot in their breasts. Different women have told us that they would do these things. How likely would you be to do these?

## 41. Would you:

Action	Very likely	<u>Likely</u>	(S.C. Don't know)	Not likely
a. Wait to see if it becomes painful	0	0	0	0
b. Get a mammogram	0	0	0	0
c. See a doctor for a breast exam	0	0	0	0
d. Wait to see if it gets bigger	0	0	0	0
e. Ask a close friend or relative for advice	0	0	0	0
f. Pray to God about it	0	0	0	0
g. Watch it every day for a while to see if it changes	0	0	0	0
h. Ignore it	0	0	0	0



42	. Now	I'd lik	e to k	now	which a	ction	ıs yo	u thi	nk are n	nost	impo	ortan	t. <b>V</b>	Vhich	would	l you	do: (	(ente	er the	letter	of cl	oice	<del>:</del> )
	1st ac	tion _			2nd act	ion [			3rd action	on _													
RI are	ELAT	IONS	HIPS talk	S. No with	ow I wo and he	ould i ply ye	like i ou w	to as ith h	sk you a realth p	few roble	que ems.	estio	is a	bout .	the pe	ople	you i	have	e knov	vn an	d ha	ve	
43	. Have	you e	ver kı	nown	someo	ne p	ersor	ally	who has	s hac	l bre	east o	anc	er?	C	Yes	0	No	0(	S.C. 1	Not si	ıre)	
					ı most r				ut that p	ersoı	n and	d her	exp	eriend	ces?								
	_	-													-			_					
	_								,									_					
	_																	-					
44.	. If you ( <b>INT</b> )	had a ER: B	seric Se sur	ous h re to	ealth pro	oble: <b>the</b> :	n, w relati	hat d i <b>ons</b> l	one perso hip to th	on, o le pe	ther ersor	than 1 in t	you he b	r doc	tor or well-	God, ie. si	woul ster.	d yo mot	u turn ther. r	to fir nale f	st for	adv . an	ice? d be
	as spe	ecific a	as po	ssibl	e.				•	•							,		,			,	
15	Now	Iwan	ia 1:15	ra ta	ack nov	. : <i>e</i>			. om din o		24	<b>L</b>			4	_1	4 1						•
cai	ncer.	There	are i	e w no ri	usk you ght or v	vron	vu u g an	gree swe	e or disa rs. We	gree are i	e wu. inter	n sol este	ne s l in	staten your	nents <u>opini</u>	abou. <u>ons</u> a	t reu bout	ttion the	isnips se stai	ana i temen	preas ets the	t at	
oth	ers ha	ive <b>m</b> a	ide.													gree			<u>agree</u>			sur	A
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	icer.															Ū			Ū				
	aling wed to be					omai	ı's pı	oble	em and th	ne m	an ir	her	life	doesn	ı't	0			0		C	)	
Αv	voman	can't	alway	ys dej	pend on	a ma	an to	help	her in t	ougł	ı tim	es.				0			0		C	)	
Me	n are n	ot as į	good	as w	omen at	cop	ing w	rith i	llness.							0			0		C	)	
Αv	voman	is mo	re lik	ely to	get sur	port	fron	n he	r female	relat	tives	whe	n sh	e is									
					her life.											0			0		C	)	
Wo	men w	ho ha	ve su	rgery	for bre	ast c	ance	r are	no long	er at	tract	ive t	o me	en.		0			0		C	)	
If a	woma	n has	breas	st can	cer, she	sho	uld te	ell th	e man ir	ı her	life.					0			0		C	)	
Αv	voman	has to	take	risks	s to get	what	she	wan	ts in life	ı						0			0		C	)	
A n	nan sho	ould h	elp th	e wo	man in l	his li	fe w	ith a	ll her pro	obler	ns.					0			0		C	)	
	nan wo cer.	uld pr	obab	ly no	ot stay w	rith a	won	nan	if he kne	w th	at sh	ne ha	d br	east		0			0		С	)	
No	one ha	s the r	ight t	to tel	l a wom	an w	hat t	o do	with he	r boo	dy.					0			0		C	)	
Me	n are n	nore at	tracte	ed to	women	with	out p	orob	lems.							0			0		С	)	
				-	get sup	-			man in	her l	ife					0			0		С	)	



cancer.

RELIGIOSITY. Many people rely on religion when they are ill. I would like to ask you a few questions about your religious beliefs. Again, there are no right or wrong answers - we are interested in what you think about religion and health.

46. Do you attend church:			
On a regular basis Occasionally Only for special events or on holic	days O No	, I don't attend chui	rch (SKIP to 50)
47. Would you mind telling me the name of the church that you attend and w	here is it loca	ated?	
Church Name			
			61 16.
Church Street Address Church tox	wn		Church State
48. How important are your church activities to you?			
○ Most important ○ Very important ○ Of some importance ○ O	f limited imp	ortance O Not in	nportant at all
49. Have you ever been to any programs about breast cancer or mammograp	hy at your ch	urch?	
O Yes O No O Not sure			
50. Do you consider yourself to be:			
O Deeply religious			
O Somewhat religious			
○ Slightly religious			
O Not at all religious (SKIP to 52)			
O Against religion (SKIP to 53)			
51. During difficult times, do you rely on your religion: O A great deal	Somewhat	O Not very much	O Not at all
52. If I were told that I had breast cancer:	Agree	<u>Undecided</u>	<u>Disagree</u>
God would work through the doctors and nurses to make me better.	0	0	0
God would help the medical treatment fight my cancer.	0	0	0
God would help my doctors fight my cancer.	0	0	0
God would guide those treating my cancer.	0	0	0
I would trust more in God to cure my cancer than medical treatment.	0	0	0
Only God, and not medical treatment, would cure my cancer.	0	0	0
I would refuse medical treatment and trust only in God to cure my cancer	r. O	0	0
Only a religious miracle could cure my cancer, not medical treatment.	0	0	0
My cancer would be because I had sinned against God.	0	0	0
It would be my responsibility to pray every day that God will cure my	0	0	0

Draft	Agree	<u>U</u>	ndecided	<u>Di</u> s	sag
The strength of my own faith in God would determine if my cancer is cured.	0		0		C
My prayer alone would do nothing to cure my cancer.	0		0		
I would want my church members to come to the hospital to pray with me.	0		0		C
My church members praying for me in church would help to cure my cancer.	0		0		(
There would be a special ceremony for me in my church to cure my cancer.	0		0		C
I would not tell anyone in my church about my cancer.	0		0		() () () () () () () () () () () () () (
I would not think about people in church praying for me.	0		0		(
somewhat, disagree somewhat or strongly disagree with the following wrong answers- we just want your opinion.		Rem			
					o o o o o o o o o o o o o o o o o o o
If a cancer is cut open in surgery, it will grow faster.	0	0	0	0	
Negative feelings can cause cancer.	0	0	0	0	
If a person has cancer, there is no sense trying to do anything about it.	0	0	0	0	
	0	0	0	0	
If a person has cancer, there is no sense trying to do anything about it.  People who take good care of themselves usually don't get cancer.  A person with high blood is more likely to get cancer than a person with normal blood.	0				
People who take good care of themselves usually don't get cancer.  A person with high blood is more likely to get cancer than a person with normal blood.	0				
People who take good care of themselves usually don't get cancer.  A person with high blood is more likely to get cancer than a person with normal blood.  Vaccinations weaken the immune system which can lead to cancer.	0	0	0	0	
People who take good care of themselves usually don't get cancer.  A person with high blood is more likely to get cancer than a person with normal blood.  Vaccinations weaken the immune system which can lead to cancer.  Luck plays a big part in determining who gets cancer.	0 0 0	0 0	0 0	0 0	
People who take good care of themselves usually don't get cancer.  A person with high blood is more likely to get cancer than a person with normal	0 1 0 0	0 0	0 0	0 0 0	
People who take good care of themselves usually don't get cancer.  A person with high blood is more likely to get cancer than a person with normal blood.  Vaccinations weaken the immune system which can lead to cancer.  Luck plays a big part in determining who gets cancer.  It is better to die whole than to let a doctor cut on your body.	0 1 0 0 0	0 0 0 0	0 0 0	0 0 0 0	
People who take good care of themselves usually don't get cancer.  A person with high blood is more likely to get cancer than a person with normal blood.  Vaccinations weaken the immune system which can lead to cancer.  Luck plays a big part in determining who gets cancer.  It is better to die whole than to let a doctor cut on your body.  Alternative treatments for cancer work better than medical remedies.	0 1 0 0 0	0 0 0 0 0 0		0 0 0 0 0	
People who take good care of themselves usually don't get cancer.  A person with high blood is more likely to get cancer than a person with normal blood.  Vaccinations weaken the immune system which can lead to cancer.  Luck plays a big part in determining who gets cancer.  It is better to die whole than to let a doctor cut on your body.  Alternative treatments for cancer work better than medical remedies.  If air gets to a cancer during surgery, it will grow faster.	0 1 0 0 0 0				
People who take good care of themselves usually don't get cancer.  A person with high blood is more likely to get cancer than a person with normal blood.  Vaccinations weaken the immune system which can lead to cancer.  Luck plays a big part in determining who gets cancer.  It is better to die whole than to let a doctor cut on your body.  Alternative treatments for cancer work better than medical remedies.  If air gets to a cancer during surgery, it will grow faster.  Cancer can be caused by dirty blood.  Doctors and health professionals are the ones I would trust most to decide how					



υταπ	<u>SA</u>	<u>AS</u>	Not Sure	<u>DS</u>	<u>SD</u>
People get cancer when they are tired and their resistance is down.	0	0	0	0	0
Doctors can treat the symptoms of cancer but not cure the disease.	0	0	0	0	0
Visualizing your body attacking cancer cells can help to cure the disease.	0	0	0	0	0
If a person worries about their cancer a lot, it will get worse.	0	0	0	0	0
People have spiritual needs and these should be part of the healing process.	0	0	0	0	0
If you keep thinking you have cancer, you will probably get it.	0	0	0	0	0
Herbal remedies are more effective than medicines against cancer.	0	0	0	0	0
Doctors experiment with people by cutting on their cancers.	0	0	0	0	0
People with thin blood are more likely to get cancer.	0	0	0	0	0
Nothing works to cure cancer so that it never comes back.	0	0	0	0	0
Positive feelings can help cure cancer.	0	0	0	0	0
Doctors and nurses don't know everything that there is to know about treating cancer.	0	0	0	0	0
No matter what I do, if I am going to get cancer, I will get it.	0	0	0	0	0
If air gets in the place where the doctor cuts, then the cancer will kill you.	0	0	0	0	0
INFORMATION ABOUT BREAST CANCER. I want to ask you these las you may have heard or seen about breast cancer within the past year. Pleas following.					
54. Within the past year, have you:	Yes		<u>No</u>	Not Sur	<u>e</u>
Seen a television program on breast cancer?	0		0	0	
Read about breast cancer in a magazine?	0		0	0	
Been to a church program on breast cancer or mammography?	0		0	0	
Seen any local television commercials about breast cancer?	0		0	0	
Heard a radio program or announcement about breast cancer?	0		0	0	
Been to a program at a club or civic group on breast cancer or mammography?	0		0	0	
Read about breast cancer or mammography in the local newspaper?	0		0	0	
Been to a program on breast cancer or mammography at work?	0		0	0	



Company that shout have to so you was a supply of	res	<u>1NO</u>	<u>Not Sure</u>
Seen a pamphlet about breast cancer or mamography?	0	0	0
Seen a video about breast cancer or mammography?	0	0	0
Participated in any local American Cancer Society activities like Relay for Life?	0	0	0
DEMOGRAPHICS: I just have a few final questions to ask you abou	t your be	ackground.	
55. What is your ethnic background?		Ü	
O African-American O Hispanic O Native American (American India)	1) OV	Vhite OM	ixed O Other
Age	,		OB
56. What was your age on your last birthday and what is your date of birth?		/	/
57. How much schooling have you completed? O Did not go to school	(	O High schoo	ol degree/GED
O Less than 4th grade	(	O Some post	high school
O 4th-8th grade	(	O College de	gree
○ Some high school	(	○ <b>G</b> raduate d	legree
58. Are you presently enrolled in school? O Yes O No, out temporare 59. Are you: O Single, never married O Married? O Separated?  If married, for how many years?  60. Who lives with you now? O No one, lives alone O Brothe O Husband/male companion O Son(s)  O Mother/stepmother O Daugh  O Father/stepfather O Other(s)  Sister(s)  61. Including yourself, how many people live in your household?	O Divorder(s)	O No ced? O Wi	dowed?
62. How many years have you lived in this community? #			
63. Have you ever lived anywhere other than eastern NC?  O No  If Yes, where did you live the longest?  For how many years?  (City, Town)  64. Do you have a telephone? O Yes O No  If Yes, what is the number?	O Ye	s	(State)
If No is there a number where you can be reached?	1	_	



**DEMOGRAPHICS--EMPLOYMENT/INSURANCE STATUS:** I just have a few more questions to ask you. These are about your employment status and the resources you have available to pay for medical treatments. This information will help us know what kinds of services people in our community need.

65. At this time are you:	O working	g for	pay	full	time	[	SKI	P ne	ext q	ues	tion]									
	O working	g for	pay	part	-tim	e [	SKI	P ne	ext q	lues	tion]									
	O self-em	ploye	ed			[3	SKI	P no	ext q	ues	tion]									
	O not wor	king	for	pay															ųues(	
66. Are you:	O retired f	from	paic	l em	ploy	ment														
	O laid off	from	a jo	ob te	mpo	rarily	<b>/</b>													
	O unemple	oyed	witl	n dis	abili	ty														tion
	O unemple	oyed	but	don'	t hav	ve dis	abil	ity												
	O a studer	nt																		
	O or have	you .	ALV	WA	/S b	een a	hor	nem	aker	and	not	worl	ked f	for p	ay	[SK	IP n	ext (	ques	tion
67. What is/was your job	called?																			
HEALTH INSURANCE,	OTHER I	BENI	EFI'	TS	•									•	•				quesi	*
68. What kind of health ins [Interviewer, show can						nce a	are 1	men	tion	ed, f	īll in	bot	h. l	Fill i	n all	that	t apj	ply.]		
O Insurance through a p	private com	pany	like	Blu	e Cr	oss														
O Medicare																				
O The VA or CHAMP	U <b>S</b>																			
O Medicaid																				
O An HMO or managed	d care plan																			
O Don't know [SKIP	next quest	ion]																		
O Don't have any type of	of health ins	uran	ce	[SK	IP n	ext q	ues	tion]												
69. Did you have health ins	urance last	year	for:	(	) the	who	le y	ear	0	or p	art c	of the	e yea	ar	O n	ot su	re			
70. Was there any time dur to get the medical care t	-	-	that	t you	cou	ıld no	t af	ford		ΟY	es	01	No							



## **FAMILY INCOME**

71	income last year. types of money, f	In second (INTER: Hand R. Card #7.) Tell me the number that comes closest to your total family I mean the total for all the people who lived in your home last year, <u>before taxes</u> . Be sure to count all from wages and salaries of all family members, Social Security, retirement or unemployment benefits, as and so on. Let me remind you that this information, like <u>all</u> your answers, will be kept completely
	O under \$5,000	
	O between \$5,000	0 and 7,999
	O between \$8,000	0 and 11,999
	O between \$12,00	00 and 15,999
	O between \$16,00	00 and 24,999
	O between \$25,00	00 and 49,999
	O over \$50,000	
	O don't know	
72.	How many people	e did this income support last year? # of people supported
73.	me the number on	do you, yourself, acutally get <u>each month</u> , after taxes and deductions are taken out? Please tell this card that comes closest to that amount. {INTER: Hand R. Card #8}
	O up to \$50	O \$801 to \$1,000
	O \$51 to \$100	O \$1,001 to \$2,000
	O \$101 to \$200	O \$2,001 to \$3,000
	O \$201 to \$300	O over \$3,000
	O \$301 to \$500	O don't know
	O \$501 to \$800	



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ont	act a	ıddre	ess	<u>i</u>	<u> </u>		<u> </u>	<u>i                                     </u>	1					<u> </u>							<u> </u>	<u> </u>	<u> </u>				_
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re t	here	any	co	mme	ents	you	wou	ıld l	ike 1	to ac	ld f	or us	to	consi	der	:											
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#### TO THE INTERVIEWER:

Please be sure to check over the entire interview to make sure that all questions are answered and that the answers are clearly marked in pencil. Also be sure that there are no stray pencil marks on the interview anywhere.